IN THE SPECIFICATION:

Please substitute the following paragraph for the same paragraph (paragraph [0032] on page 13) in the application as originally filed:

~~The invention presents experimental results that validate the algorithm in practice, which are shown in the attached Appendix.~~ A flowchart illustrating the method of the invention is illustrated in Figure 2, wherein the method of adaptively managing pages in a cache memory included within a system having a variable workload comprises arranging 250 a cache memory included within a system into a circular buffer; maintaining 252 a pointer that rotates around the circular buffer; maintaining 254 a bit for each page in the circular buffer, wherein a bit value 0 indicates that the page was not accessed by the system since a last time that the pointer traversed over the page, and a bit value 1 (second bit value) indicates that the page has been accessed since the last time the pointer traversed over the page; and dynamically controlling 256 a distribution of a number of pages in the cache memory that are marked with bit value 0 (first bit value) in response to a variable workload in order to increase a hit ratio of the cache memory.